

Trovitex[®], white

Trovitex[®], white is the name for extruded sheets of rigid PVC-Foam (PVC-U, Freefoam), containing no plasticizer.

characterizing features:

- low weight (specific gravity 0,5 – 0,55 g/cm³), thus making for easy transport and assembly
- good mechanical properties
- good insulation, lower heat transmission
- matt textured surfaces on either side
- light and weathering resistance, suitable for outdoor application
- low flammability, Fire behaviour Class DIN 4101-B1 (3 to 6 mm thickness)
- easily fabricated and machined
- suitable for printing

sizes and tolerances

size	:	2440 mm x 1220 mm; 3050 mm x 1220 mm
	:	3050 mm x 1560 mm; 3050 mm x 2030 mm
	:	4050 mm x 2030 mm; other sizes on request
thickness	:	3 to 10 mm; other thicknesses on request
colour	:	white 657, other colours on request
tolerance of thickness	:	$\pm (0,1 + 0,05 \cdot s)$, s = thickness [mm]

Physical Properties

The physical data given in the table were determined on the test specimens under defined conditions and represent averages values from a relatively large number of measurements. The values measured on test specimens can't be used without restriction for a prediction of the properties of finished articles, since processing and shaping have an influence on the properties.

Property	Standard	Test method	Unit	Trovitex® white
Mechanical Properties				
Density	ISO 1183 (DIN 53479)	–	g/cm ³	0,50 – 0,55
Tensile stress	DIN EN ISO 527	–	N/mm ²	10
Elongation at break	DIN EN ISO 527	–	%	15
Modulus of elasticity	ISO 178 (DIN 53 457)	–	N/mm ²	≈ 700
Flexural strength	DIN ISO 178	–	N/mm ²	15
Compression stress	DIN ISO 2039	5/10% compression	N/mm ²	– / 4
Impact strength	DIN EN ISO 179 (DIN 53 453)	–	kJ/m ²	15
Ball-pressure hardness	ISO 2039 (DIN 53 456)	–	N/mm ²	≈ 8
Shore hardness D	DIN 53 505	–	–	≈ 50
Thermal Properties				
Vicat softening temperature	DIN EN ISO 306	Method A 50	°C	70
Coefficient of linear expansion	DIN 53 752	20 to 60°C	K ⁻¹	≈ 66 · 10 ⁻⁶
Heat transfer coefficient (K-Value)	DIN 4108, part 5	–	–	–
Thermal conductivity at 20°C	DIN 52 616	–	W/(m · K)	0,059
Electrical properties				
Surface resistivity	DIN IEC 60093 VDE 0303-30	–	Ω	> 10 ¹²
other properties				
Water absorption	DIN 53 495 / ISO 62	7 days at 23°C	%	≤ 1
Temperature range for application	–	Classification	–	0 to 55°C
Weather stability Classification	DIN 53387, dosing 0,8 MJ/cm ²	DIN 54001 grey-scale (5 – 1)	–	position 4 – 3
Physiological indifference	–	–	–	no
Fire behaviour	DIN 4102 (D)	–	3 to 6 mm	B1